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10/029,798	12/31/2001	Charles E. Carter JR.	BS00-071	5667

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EXAMINER

MILORD, MARCEAU

ART UNIT PAPER NUMBER

2682

DATE MAILED: 06/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/029,798

Applicant(s)

Examiner

Marceau Milord

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities: in claim 1, page 21, line 11, "a semi-colon should be written "after mobile switching center". Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyoda et al (US Patent No 6594490 B1) in view of Adamany et al (US Patent No 6615041 B2).

Regarding claim 1, Toyoda et al discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, comprising: a new mobile switching center having a temporary point code on which a cellular telephone can register, the new mobile switching center having a temporary point code (fig. 5 and fig. 7; col.4, lines 23-64); an old mobile switching

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center having a second point code, wherein the temporary point code is different from the second point code; a trunk group connected between the new mobile switching center and the old mobile switching center to route one or more telephone calls between the old mobile switching center and the new mobile switching center (col. 7, lines 10-65; col. 8, line 3- col. 9, line 55), wherein the home location register receives a registration message comprising location information from the new mobile switching center when the cellular telephone registers (figs. 12-16; col. 10, line 24- col. 58; col. 16, line 11- col. 17, line 40).

However, Toyoda et al does not specifically disclose a communication link connected between the new mobile switching center and the STPs to provide a communication path for sending messages between the old mobile switching center and the new mobile switching center a home location register for storing location information comprising an identification of the cellular telephone and a point code of the new mobile switching center.

On the other hand, Adamany et al, from the same field of endeavor, discloses a system to provide a home system with information about a wireless unit roaming in a visited system based on information the wireless unit provides to the visited system. A mobile switching center of the visited system receives the information from the wireless unit and routes a message to a gateway. In response, the gateway creates a new message or alters the original message, and transmits the new or altered message to a mobile switching center of the home system. In response to receipt of the new or altered message, the MSC-H validates the wireless unit, creates a response to the new or altered message, and routes the response to the gateway. The response may include an authorization period for the wireless unit and/or OCOS/TCOS information. In response, the gateway creates a new response or alters the response, and

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transmits the new or altered response to the MSC-V (figs. 1-4; col. 4, line 34- col. 5, line 21). Furthermore, the new response includes the point code of the gateway as the originating point code and the point code of the MSC-V 24 as the destination point code. In addition, the new response may be changed from the response received from the MSC-H 18 in that the originating point code in the response may be changed from the point code for the MSC-H 18 to the point code for the gateway 10. Furthermore, the response from the MSC-H 18 may include an identification of the MSC-V 24 such as inclusion of the appropriate MSCID parameter for the MSC-V 24 (fig. 5; col. 7, line 16- col. 8, line 67; col. 9, line 1- col. 10, line 62; col. 11, line 46- col. 12, line 62; col. 14, lines 6-67; col. 15, line 21- col. 16, line 50; col. 17, line 14- col. 18, line 60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Adamany to the communication system of Toyoda in order to add an optional features in a communication networks having a node such as a mobile switching center that can generate messages indicating that a new optional feature has been implemented in the network.

Regarding claim 2, Toyoda et al as modified discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, comprising a switch transfer point that determines a point code corresponding to the home location register and forwards a location request received from the new mobile switching center to the home location register to determine a location of a second cellular telephone that is called by the first cellular telephone (col. 7, lines 10-65; col. 8, line 3- col. 9, line 55).

Regarding claim 3, Toyoda et al as modified discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, comprising a global translation title table that is

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used by the switch transfer point to determine the point code corresponding to the home location register (col. 10, line 31- col. 11, line 58).

Regarding claim 4, Toyoda et al as modified discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, further comprising a new range of temporary local directory numbers assigned to the new mobile switching center (col. 7, line 9- col. 8, line 60).

Regarding claim 5, Toyoda et al as modified discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, further comprising a route request sent by the home location register to the new mobile switching center to obtain a temporary local directory number to send to a mobile switching center in the system other than the new mobile switching center that provides routing information for routing a telephone call to the cellular telephone (col. 13, line 4- col. 14, line 34).

Regarding claim 6, Toyoda et al as modified discloses a system (figs. 1-2) for providing cellular telephone service during cluster testing, further comprising: an initial access message sent over the communication link from the old mobile switching center to the new mobile switching center to request a call to be routed over the trunk group; means for paging the cellular telephone; and an answer complete message sent over the; communication link from the new mobile switching center to the old mobile switching unit when the cellular telephone is answered (figs. 12-16; col. 10, line 24- col. 58; col. 16, line 11- col. 17, line 40).

Regarding claim 7, Toyoda et al discloses a method for maintaining cellular telephone service in a cellular telephone network (figs. 1-2) during cluster testing comprising the steps of: assigning a temporary point code to a new mobile switching center (fig. 5 and fig. 7; col.4, lines

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23-64); cutting the new mobile switching center into the cellular telephone network; building a trunk group between the mobile switching center and an old switching center that the new mobile switching center will replace (col. 7, lines 10-65; col. 8, line 3- col. 9, line 55; figs. 12-16; col. 10, line 24- col. 58; col. 16, line 11- col. 17, line 40).

However, Toyoda et al does not specifically disclose a building a signaling link between the new mobile switching center and the old mobile switching center, wherein telephone calls are set up on the trunk group to maintain cellular telephone service during cluster testing.

On the other hand, Adamany et al, from the same field of endeavor, discloses a system to provide a home system with information about a wireless unit roaming in a visited system based on information the wireless unit provides to the visited system. A mobile switching center of the visited system receives the information from the wireless unit and routes a message to a gateway. In response, the gateway creates a new message or alters the original message, and transmits the new or altered message to a mobile switching center of the home system. In response to receipt of the new or altered message, the MSC-H validates the wireless unit, creates a response to the new or altered message, and routes the response to the gateway. The response may include an authorization period for the wireless unit and/or OCOS/TCOS information. In response, the gateway creates a new response or alters the response, and transmits the new or altered response to the MSC-V (figs. 1-4; col. 4, line 34- col. 5, line 21). Furthermore, the new response includes the point code of the gateway as the originating point code and the point code of the MSC-V 24 as the destination point code. In addition, the new response may be changed from the response received from the MSC-H 18 in that the originating point code in the response may be changed from the point code for the MSC-H 18 to the point code for the gateway 10. Furthermore, the

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response from the MSC-H 18 may include an identification of the MSC-V 24 such as inclusion of the appropriate MSCID parameter for the MSC-V 24 (fig. 5; col. 7, line 16- col. 8, line 67; col. 9, line 1- col. 10, line 62; col. 11, line 46- col. 12, line 62; col. 14, lines 6-67; col. 15, line 21- col. 16, line 50; col. 17, line 14- col. 18, line 60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Adamany to the communication system of Toyoda in order to add an optional features in a communication networks having a node such as a mobile switching center that can generate messages indicating that a new optional feature has been implemented in the network.

Regarding claims 8-9, Toyoda et al as applied to claim 7 above differs from claims 8-9 in the present invention, in that Toyoda fails to disclose the steps of assigning a new TLDN range to the new mobile switching center; receiving an initial address message from the old MSC on the signaling link; sending an address-complete message in response to the initial address message; and ringing a cellular telephone in accordance with the initial address message.

However, Adamany discloses a system to provide a home system with information about a wireless unit roaming in a visited system based on information the wireless unit provides to the visited system. A mobile switching center of the visited system receives the information from the wireless unit and routes a message to a gateway. In response, the gateway creates a new message or alters the original message, and transmits the new or altered message to a mobile switching center of the home system. In response to receipt of the new or altered message, the MSC-H validates the wireless unit, creates a response to the new or altered message, and routes the response to the gateway. The response may include an authorization period for the wireless unit and/or OCOS/TCOS information. In response, the gateway creates a new response or alters

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the response, and transmits the new or altered response to the MSC-V (figs. 1-4; col. 4, line 34- col. 5, line 21). Furthermore, the new response includes the point code of the gateway as the originating point code and the point code of the MSC-V 24 as the destination point code. In addition, the new response may be changed from the response received from the MSC-H 18 in that the originating point code in the response may be changed from the point code for the MSC-H 18 to the point code for the gateway 10. Furthermore, the response from the MSC-H 18 may include an identification of the MSC-V 24 such as inclusion of the appropriate MSCID parameter for the MSC-V 24 (fig. 5; col. 7, line 16- col. 8, line 67; col. 9, line 1- col. 10, line 62; col. 11, line 46- col. 12, line 62; col. 14, lines 6-67; col. 15, line 21- col. 16, line 50; col. 17, line 14- col. 18, line 60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Adamany to the communication system of Toyoda in order to add an optional features in a communication networks having a node such as a mobile switching center that can generate messages indicating that a new optional feature has been implemented in the network.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakamura et al US Patent No 64632384 B2 discloses a method of storing subscriber data in a mobile communication system which includes the steps of providing a high-priority subscriber storage area in addition to an ordinary subscriber storage area.

Gossman et al US Patent No 6181935 B1 discloses a mobility extended telecommunications application and method of use which comprises an integrated wireless and

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wirelined network with central control and which has a programmed interface to translate between the different protocols of the wireless and the wirelined networks.

Corriveau et al US Patent No 6141544 discloses a system and method for over the air activation in a wireless telecommunications network.

Kosster US Patent No 6259914 B1 discloses a method and apparatus for implementing international wireless roaming which allows an international roamer to enter a visited system in a foreign country and originate calls.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marceau Milord whose telephone number is 703-306-3023. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian C. Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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Examiner
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